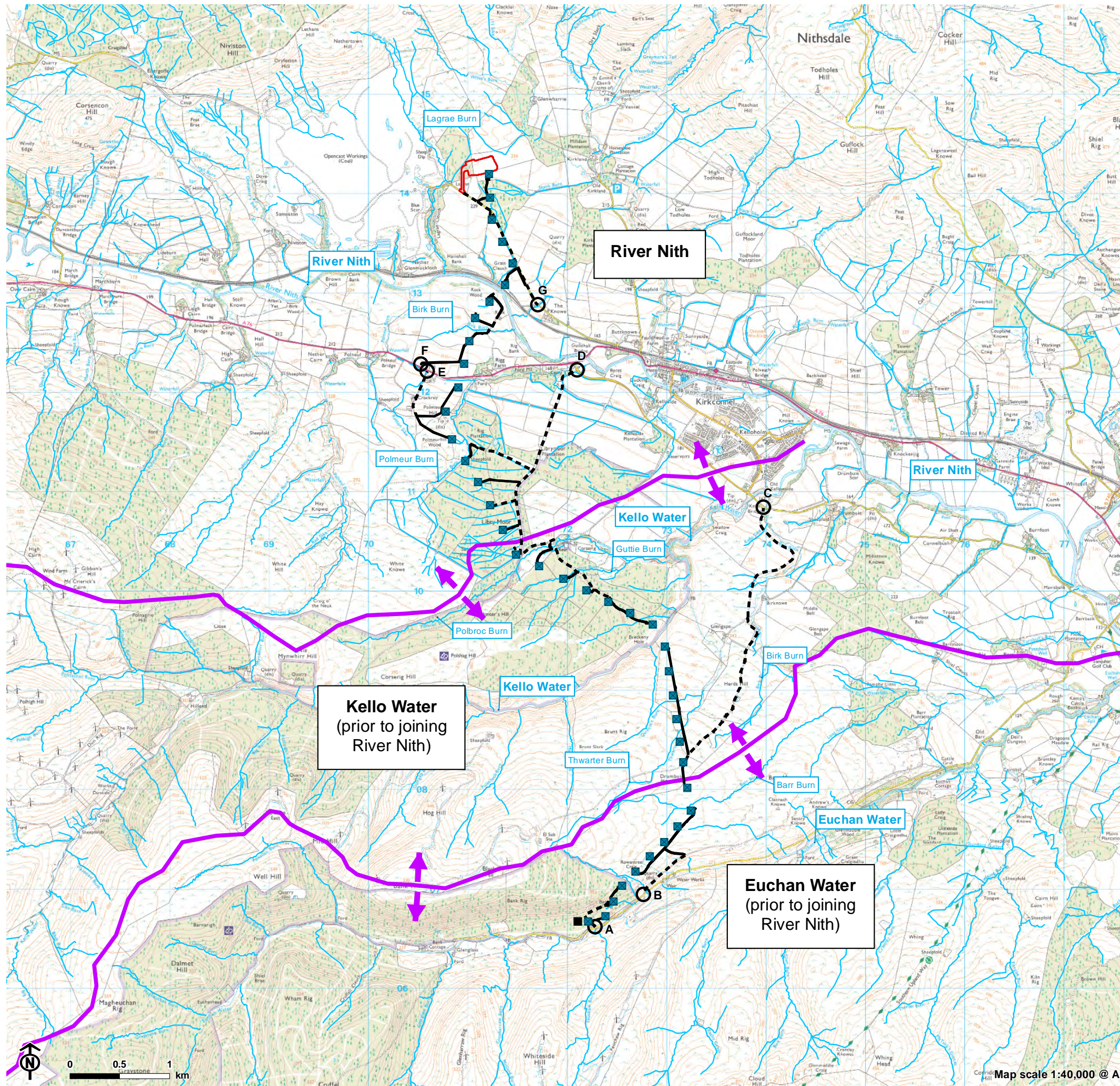


Figure 7.1: Hydrological Setting



Overhead line infrastructure

- Tower (steel lattice tower)

Access to proposed towers and temporary work areas

- - - Existing access track
- New access track
- Access point

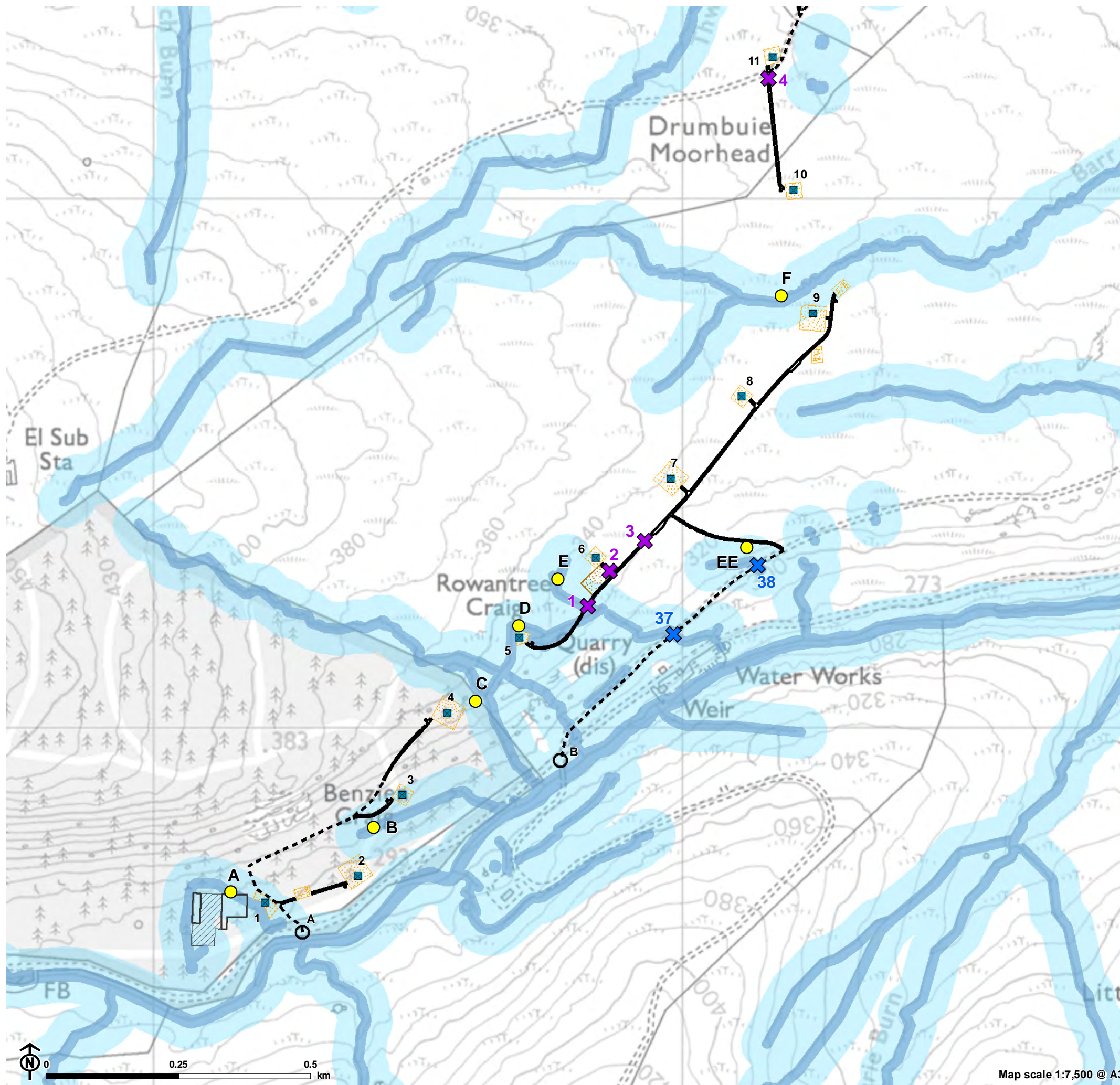
Substations

- ▭ Glenmuckloch substation site boundary
- Glenglass substation and proposed extension (does not form part of this application)

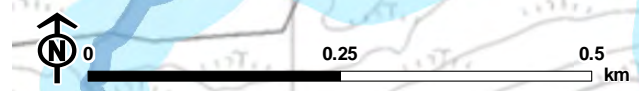
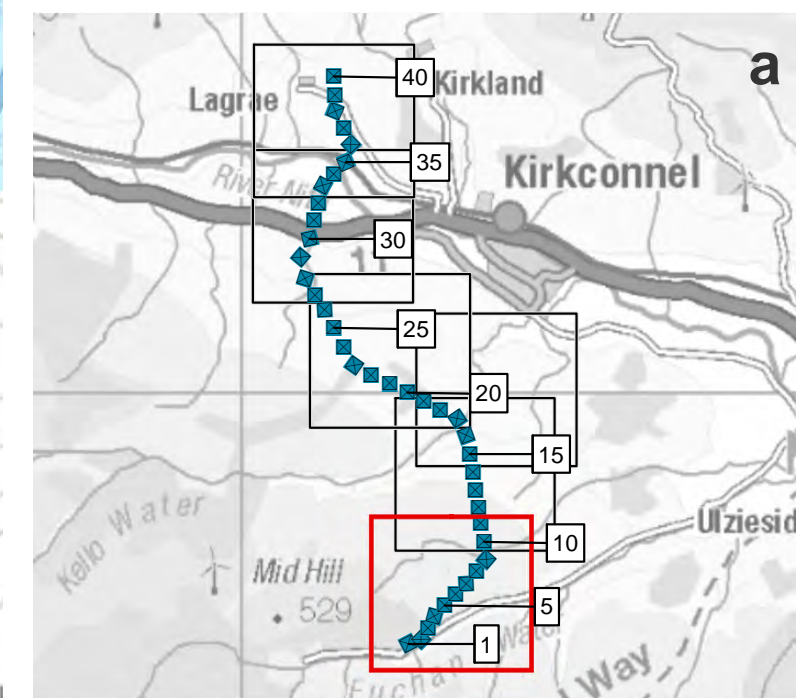
Hydrological setting

- Drainage divide
- Watercourse

Figure 7.2a: Watercourse Crossings and Buffers

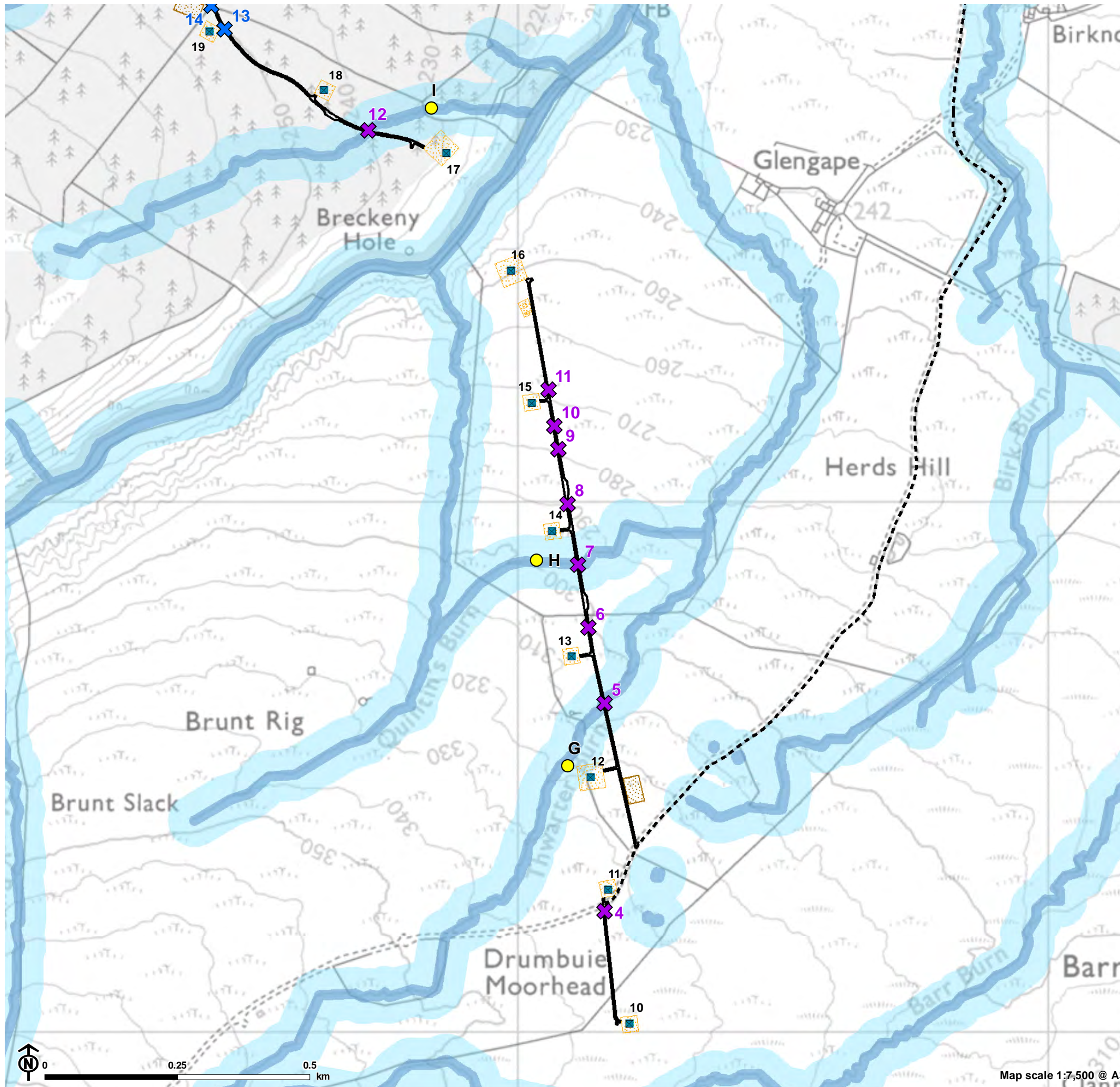


- Overhead line infrastructure**
- Tower (steel lattice tower)
 - ▨ Laydown area
 - ▨ Working area
- Access to proposed towers and temporary work areas**
- - - Existing access track
 - New access track
 - Access point
- Glenglass substation (does not form part of this application)
- ▨ Existing substation
 - ▭ Proposed substation extension
- Watercourse crossings and buffers**
- Watercourse buffer encroachment
 - ✕ Existing crossing
 - ✕ New crossing
 - Watercourse 10m buffer
 - Watercourse 50m buffer

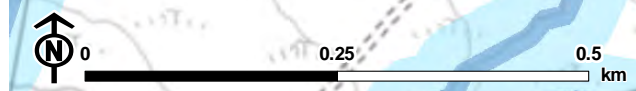
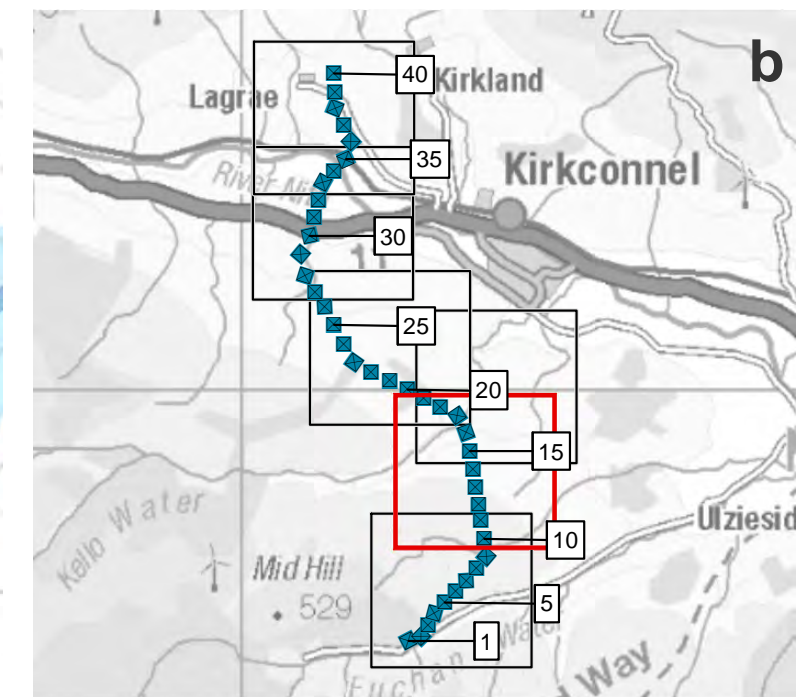


Map scale 1:7,500 @ A3

Figure 7.2b: Watercourse Crossings and Buffers

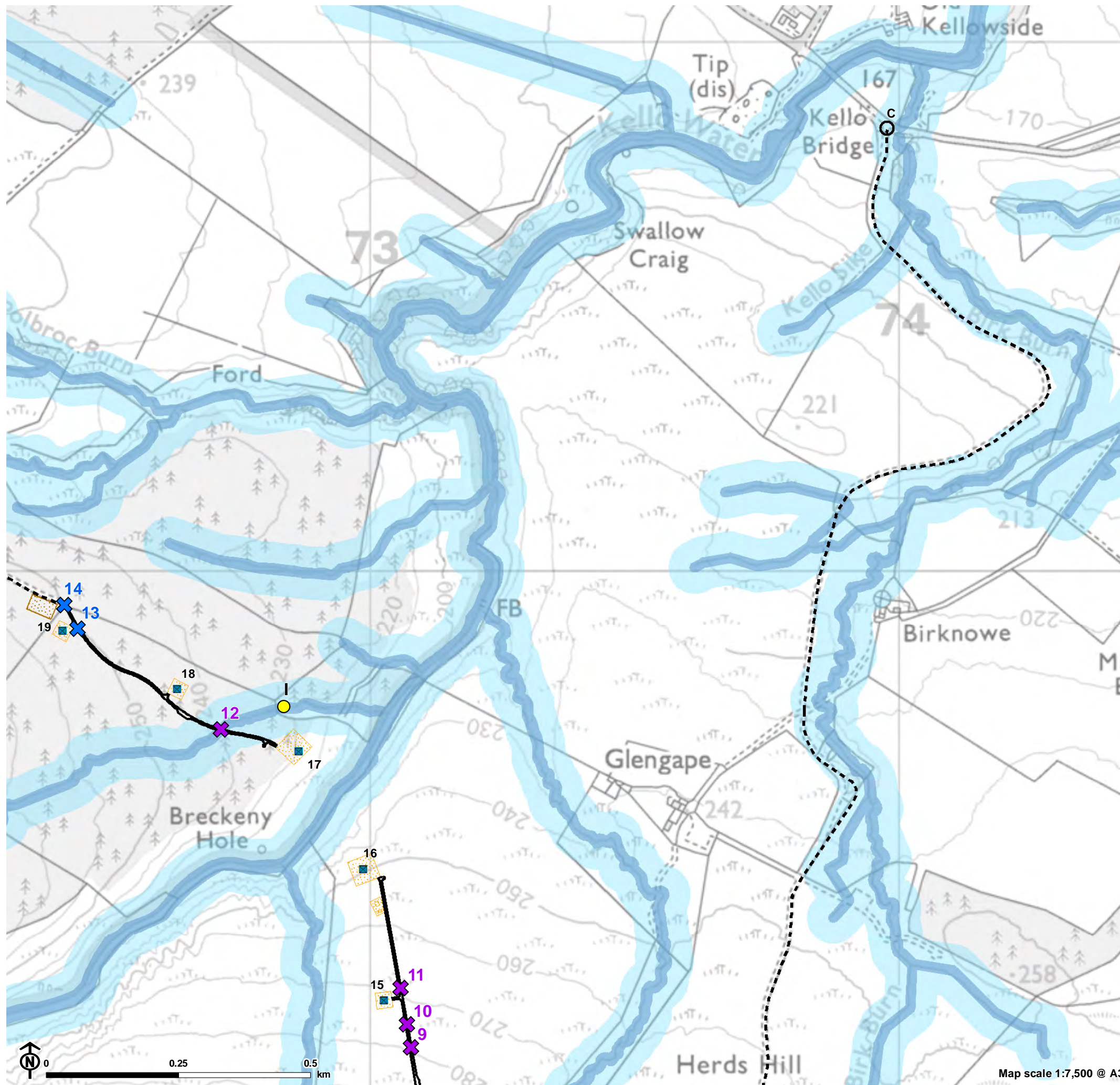


- Overhead line infrastructure**
- Tower (steel lattice tower)
 - Laydown area
 - Working area
- Access to proposed towers and temporary work areas**
- Existing access track
 - New access track
- Watercourse crossings and buffers**
- Watercourse buffer encroachment
 - Existing crossing
 - New crossing
 - Watercourse 10m buffer
 - Watercourse 50m buffer

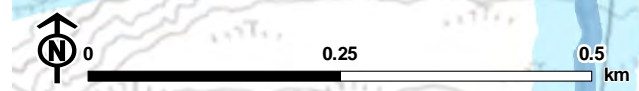
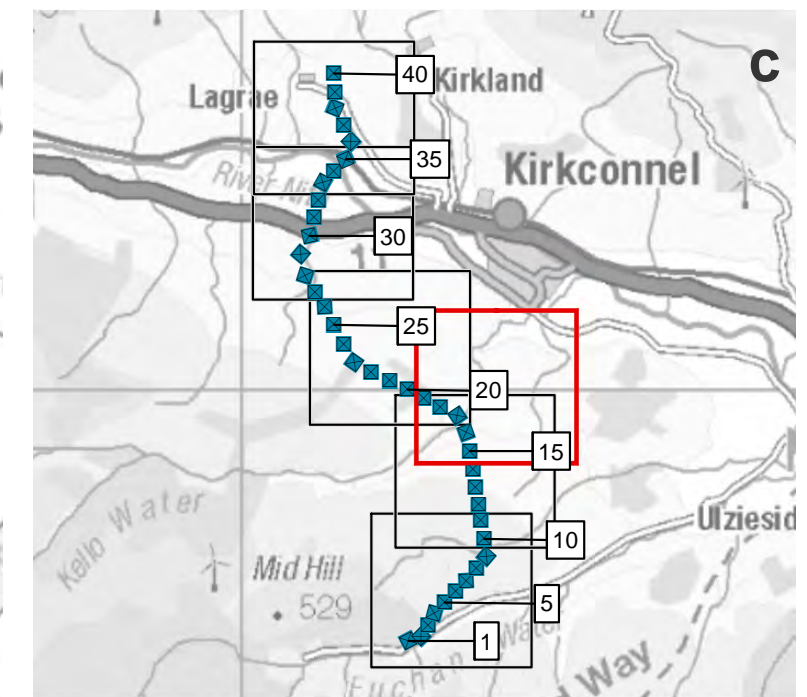


Map scale 1:7,500 @ A3

Figure 7.2c: Watercourse Crossings and Buffers

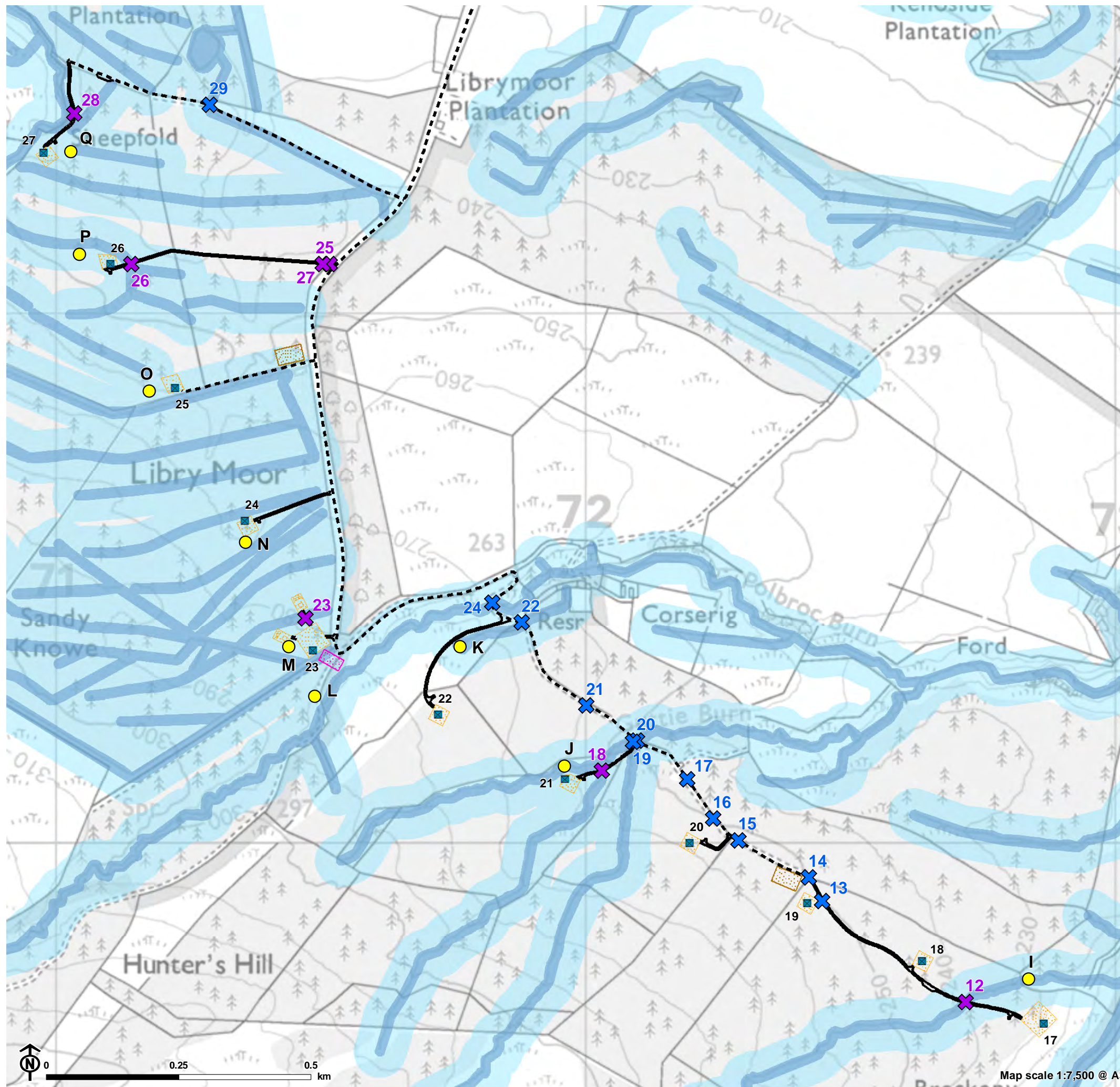


- Overhead line infrastructure**
- Tower (steel lattice tower)
 - Laydown area
 - Working area
- Access to proposed towers and temporary work areas**
- Existing access track
 - New access track
 - Access point
- Watercourse crossings and buffers**
- Watercourse buffer encroachment
 - Existing crossing
 - New crossing
 - Watercourse 10m buffer
 - Watercourse 50m buffer



Map scale 1:7,500 @ A3

Figure 7.2d: Watercourse Crossings and Buffers



- Overhead line infrastructure**
- Tower (steel lattice tower)
 - Laydown area
 - Scaffolding
 - Working area
- Access to proposed towers and temporary work areas**
- Existing access track
 - New access track
- Watercourse crossings and buffers**
- Watercourse buffer encroachment
 - Existing crossing
 - New crossing
 - Watercourse 10m buffer
 - Watercourse 50m buffer

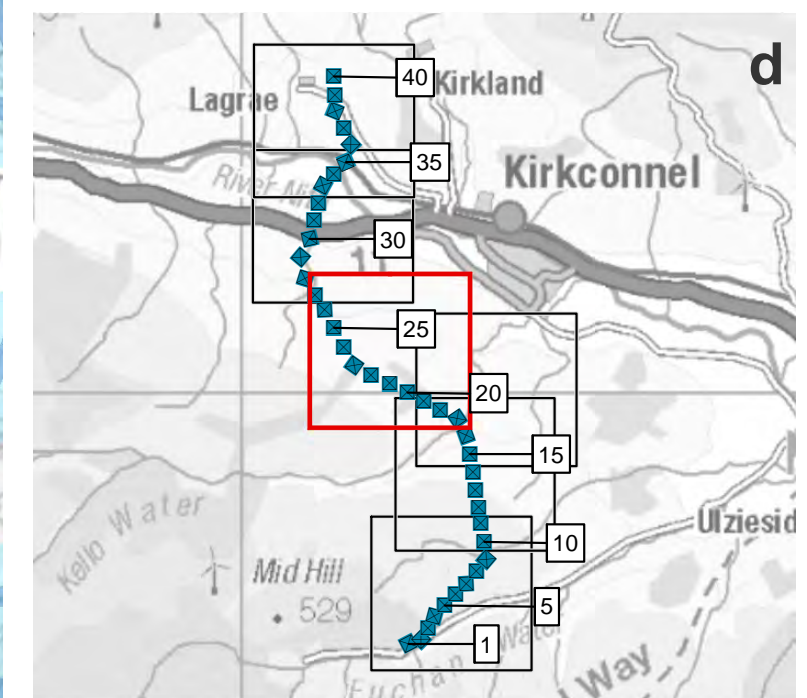
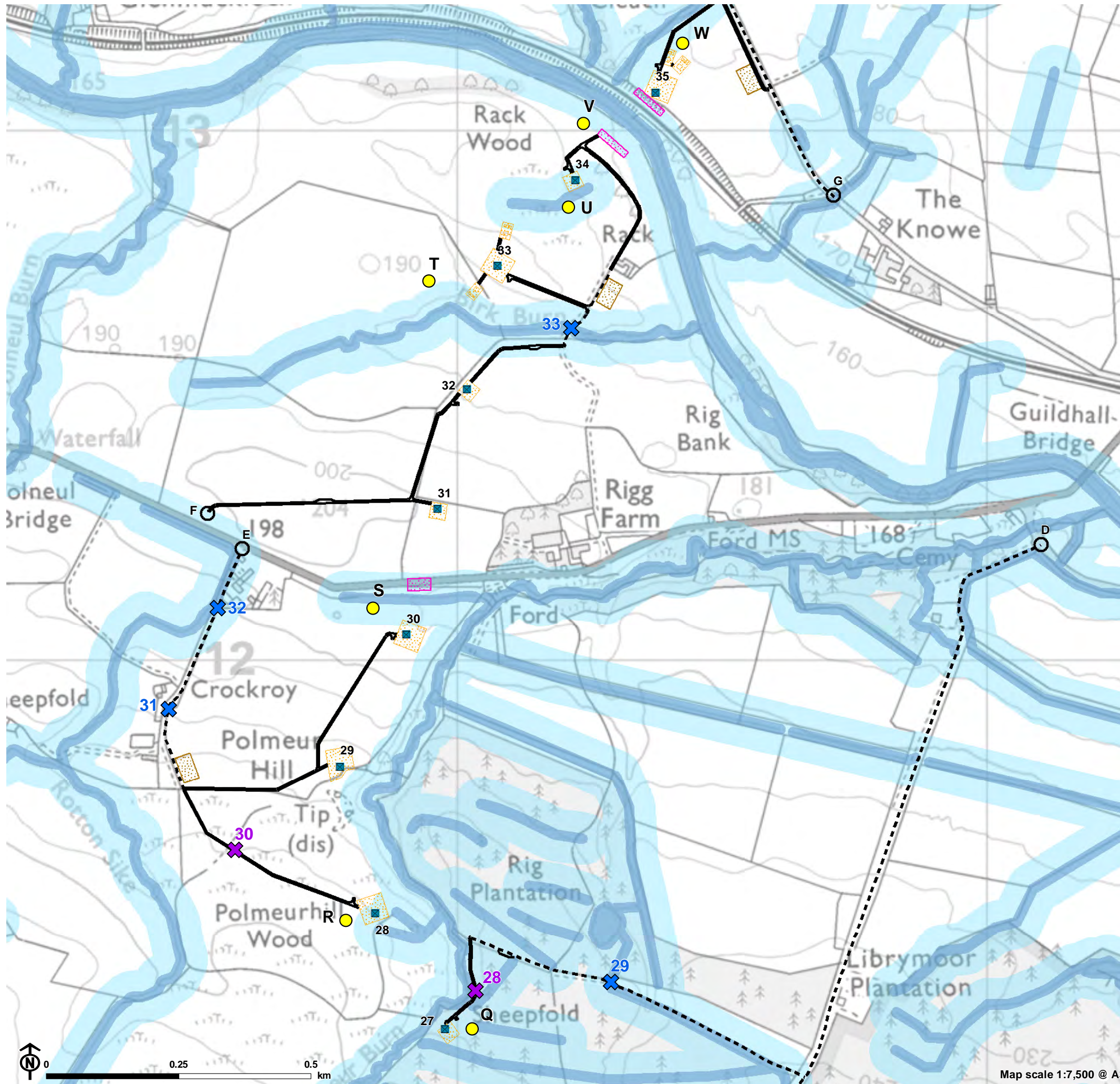
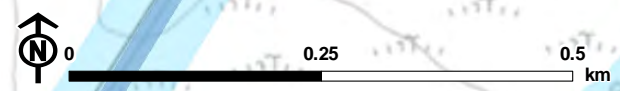
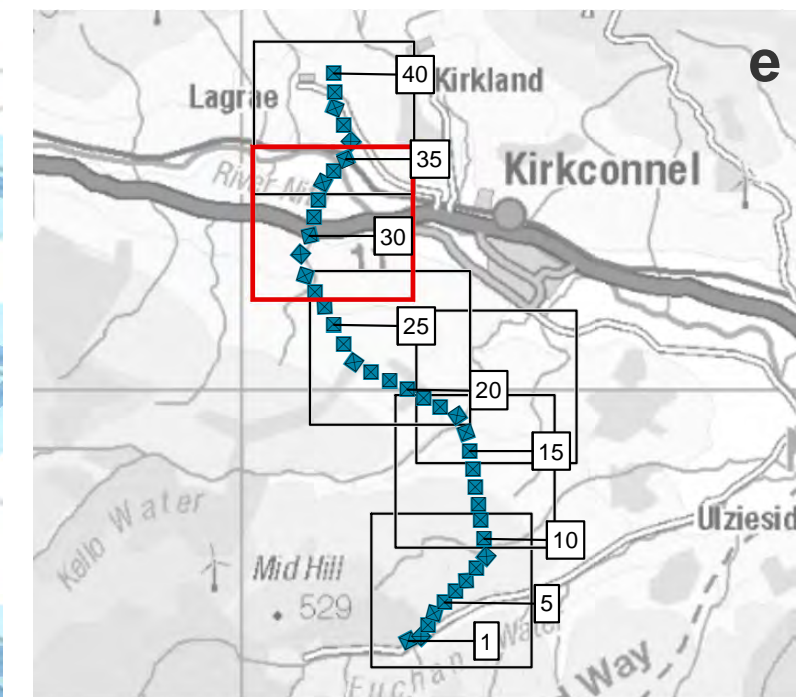


Figure 7.2e: Watercourse Crossings and Buffers

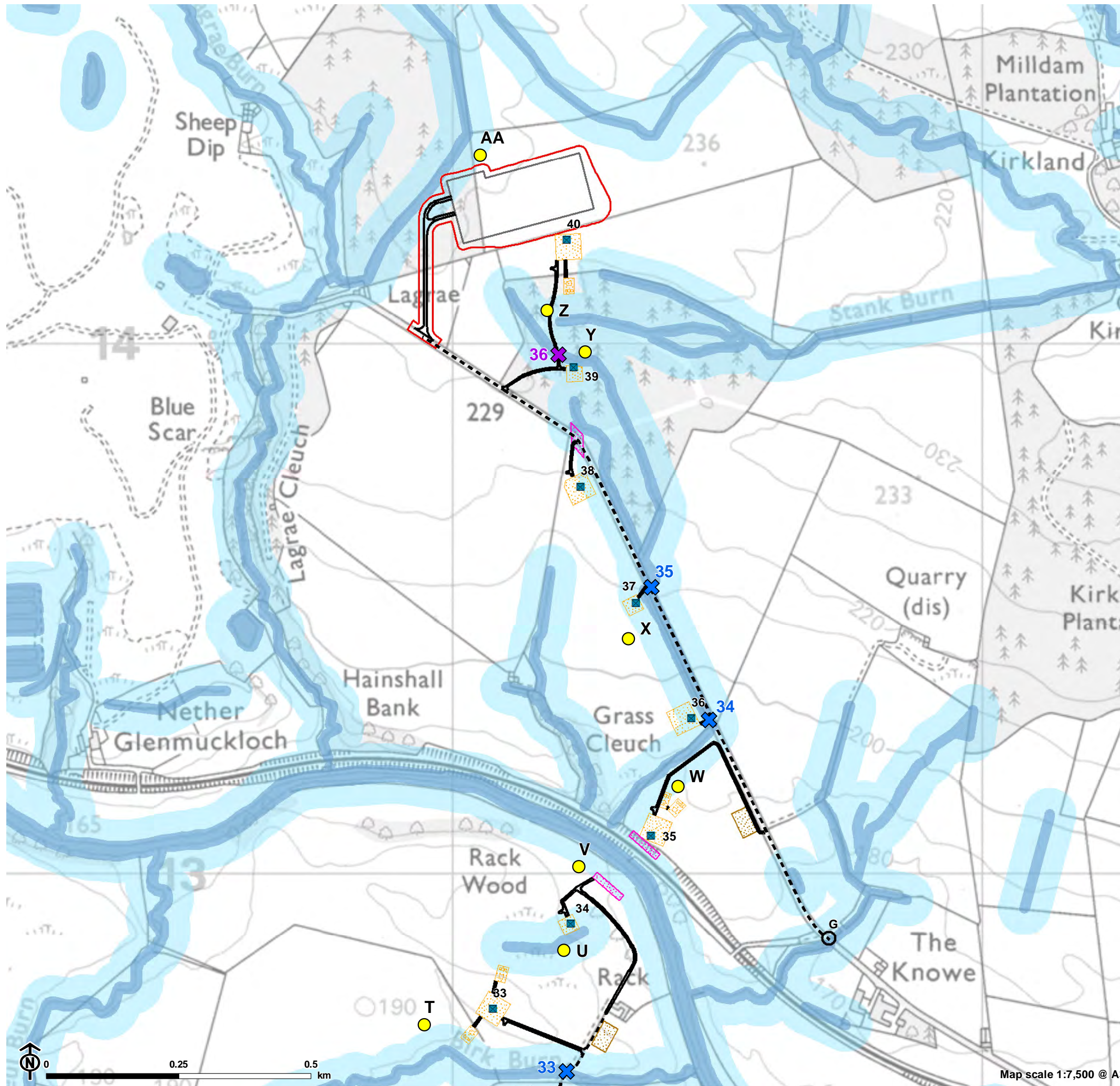


- Overhead line infrastructure**
- Tower (steel lattice tower)
 - Laydown area
 - Scaffolding
 - Working area
- Access to proposed towers and temporary work areas**
- Existing access track
 - New access track
 - Access point
- Watercourse crossings and buffers**
- Watercourse buffer encroachment
 - Existing crossing
 - New crossing
 - Watercourse 10m buffer
 - Watercourse 50m buffer

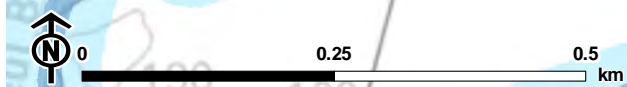
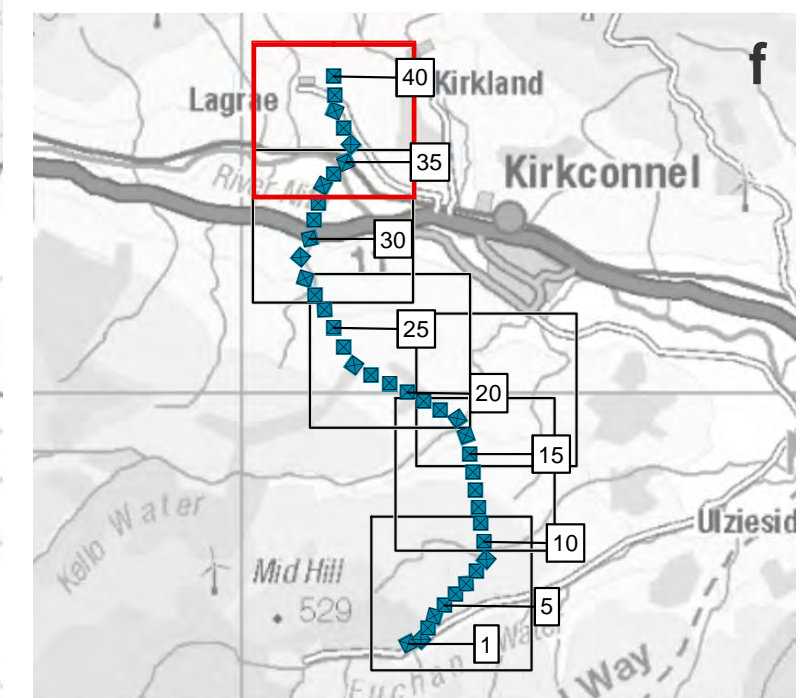


Map scale 1:7,500 @ A3

Figure 7.2f: Watercourse Crossings and Buffers

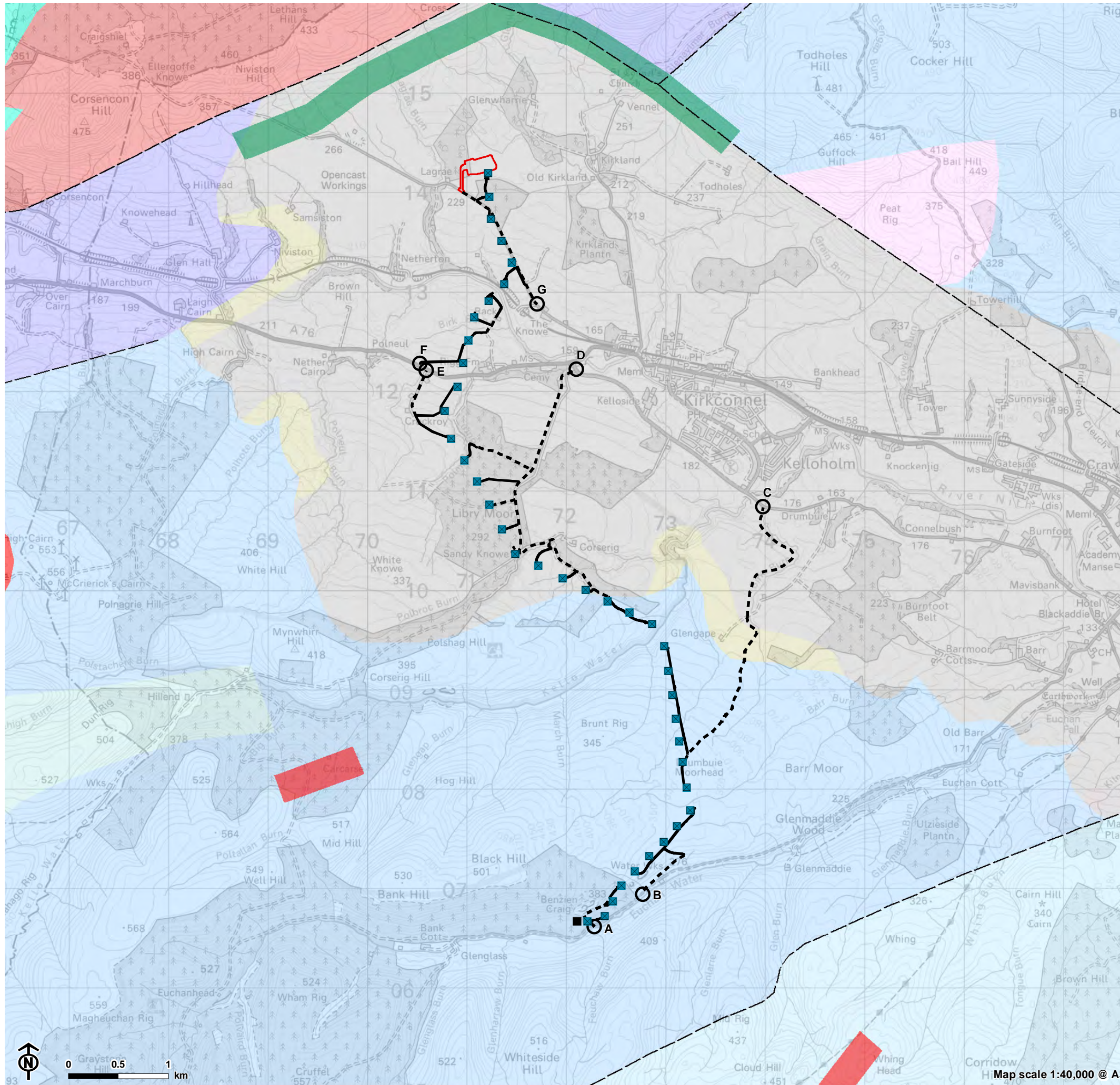


- Overhead line infrastructure**
- Tower (steel lattice tower)
 - Laydown area
 - Scaffolding
 - Working area
- Access to proposed towers and temporary work areas**
- Existing access track
 - New access track
 - Access point
- Proposed Glenmuckloch substation**
- Glenmuckloch substation
 - Glenmuckloch substation site boundary
 - Glenmuckloch substation new access track
- Watercourse crossings and buffers**
- Watercourse buffer encroachment
 - Existing crossing
 - New crossing
 - Watercourse 10m buffer
 - Watercourse 50m buffer



Map scale 1:7,500 @ A3

Figure 7.3: Solid Geology



Overhead line infrastructure

- Tower (steel lattice tower)

Access to proposed towers and temporary work areas

- - - Existing access track
- New access track
- Access point

Substations

- ▭ Glenmuckloch substation site boundary
- Glenglass substation and proposed extension (does not form part of this application)

Solid geology

BGS faults (1:625,000)

- Fault at rockhead

BGS dykes (1:625,000)

- UNNAMED IGNEOUS INTRUSION, PALAEOGENE - MAFIC IGNEOUS-ROCK
- UNNAMED IGNEOUS INTRUSION, LATE SILURIAN TO EARLY DEVONIAN - FELSIC-ROCK

BGS bedrock (1:625,000)

- SCOTTISH COAL MEASURES GROUP - MUDSTONE, SILTSTONE, SANDSTONE, COAL, IRONSTONE AND FERRICRETE
- CLACKMANNAN GROUP - SEDIMENTARY ROCK CYCLES, CLACKMANNAN GROUP TYPE
- INVERCLYDE GROUP - SANDSTONE, SILTSTONE AND MUDSTONE
- UNNAMED IGNEOUS INTRUSION, LATE SILURIAN TO EARLY DEVONIAN - FELSIC-ROCK
- LANARK GROUP - SANDSTONE AND CONGLOMERATE, INTERBEDDED
- BLACKCRAIG FORMATION AND GALDENOECH FORMATION (UNDIFFERENTIATED) - WACKE
- KIRKCOLM FORMATION - WACKE
- PORTPATRICK FORMATION AND GLENWHARGEN FORMATION (UNDIFFERENTIATED) - WACKE
- TAPPINS GROUP - WACKE
- CAMBRIAN AND ORDOVICIAN ROCKS (UNDIFFERENTIATED) - MAFIC LAVA AND MAFIC TUFF

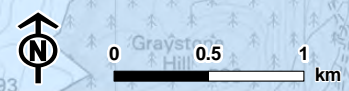
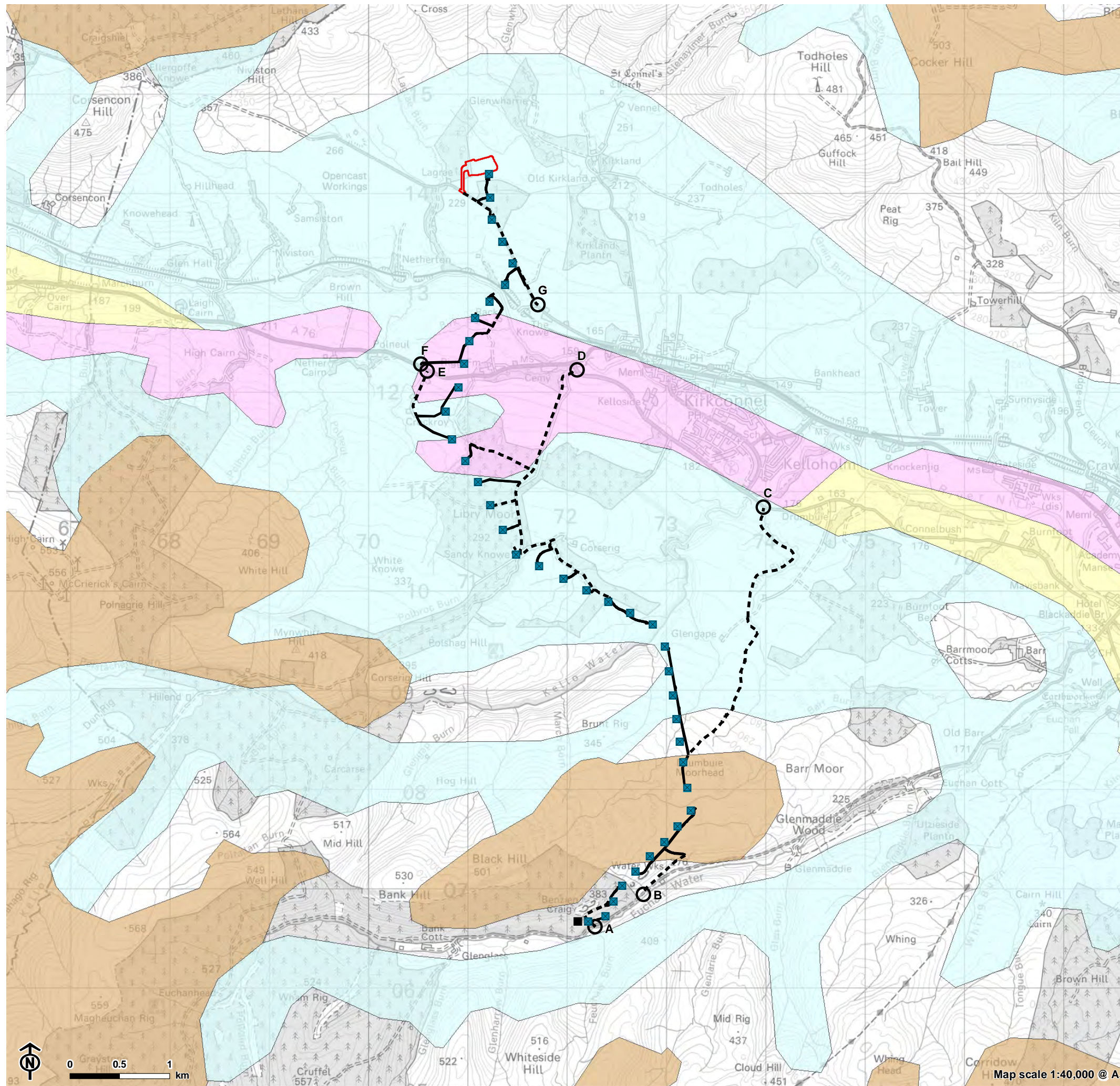


Figure 7.4: Superficial Geology



Overhead line infrastructure

- Tower (steel lattice tower)

Access to proposed towers and temporary work areas

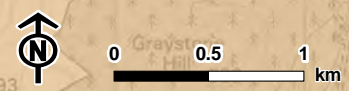
- - - Existing access track
- New access track
- Access point

Substations

- Glenmuckloch substation site boundary
- Glenglass substation and proposed extension (does not form part of this application)

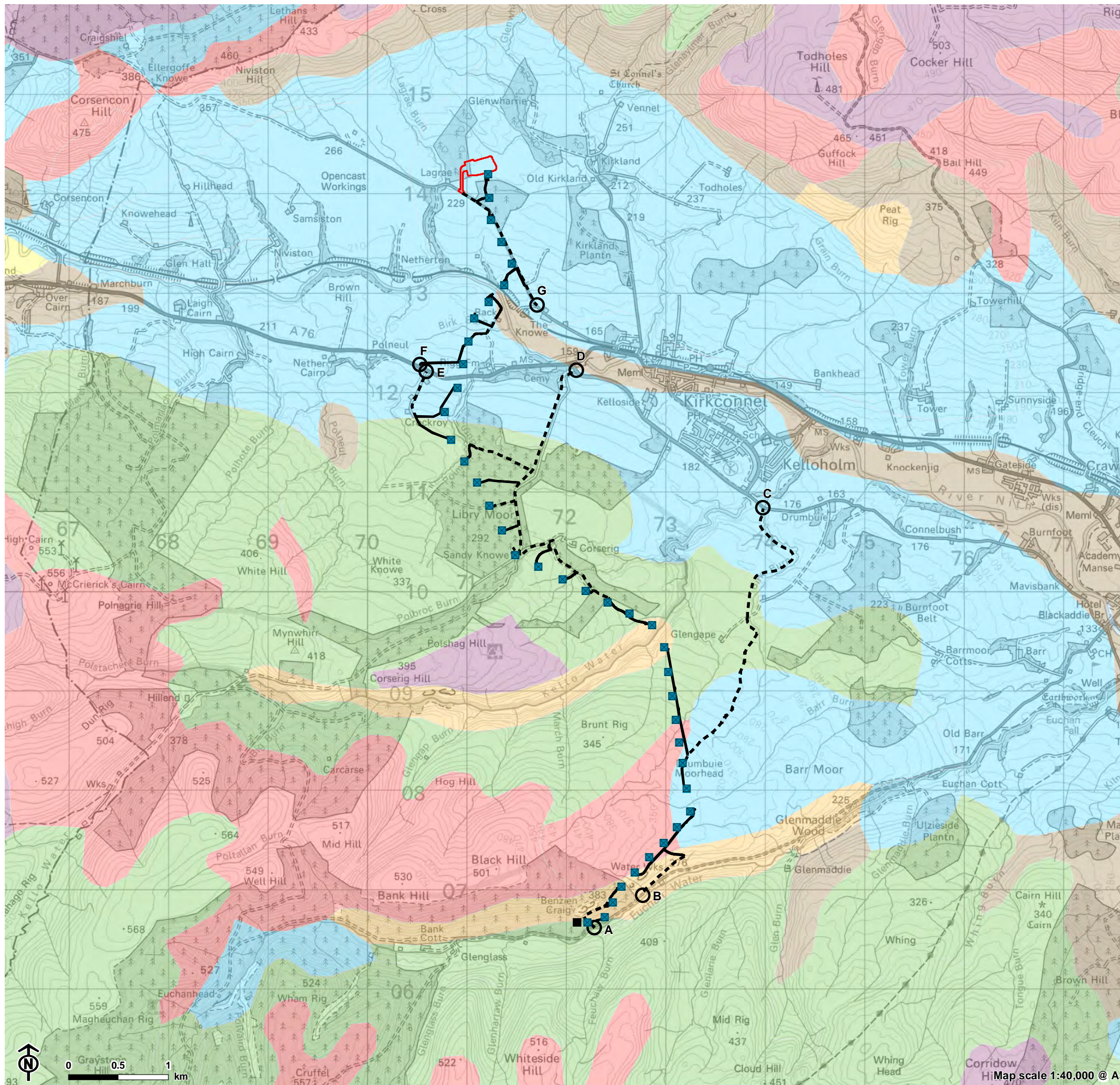
BGS superficial geology (1:625,000)

- ALV-CLSS: CLAY, SILT AND SAND
- GSG-SAGR: SAND AND GRAVEL
- PEAT-PEAT: PEAT
- TILL-DMTN: DIAMICTON



Map scale 1:40,000 @ A3

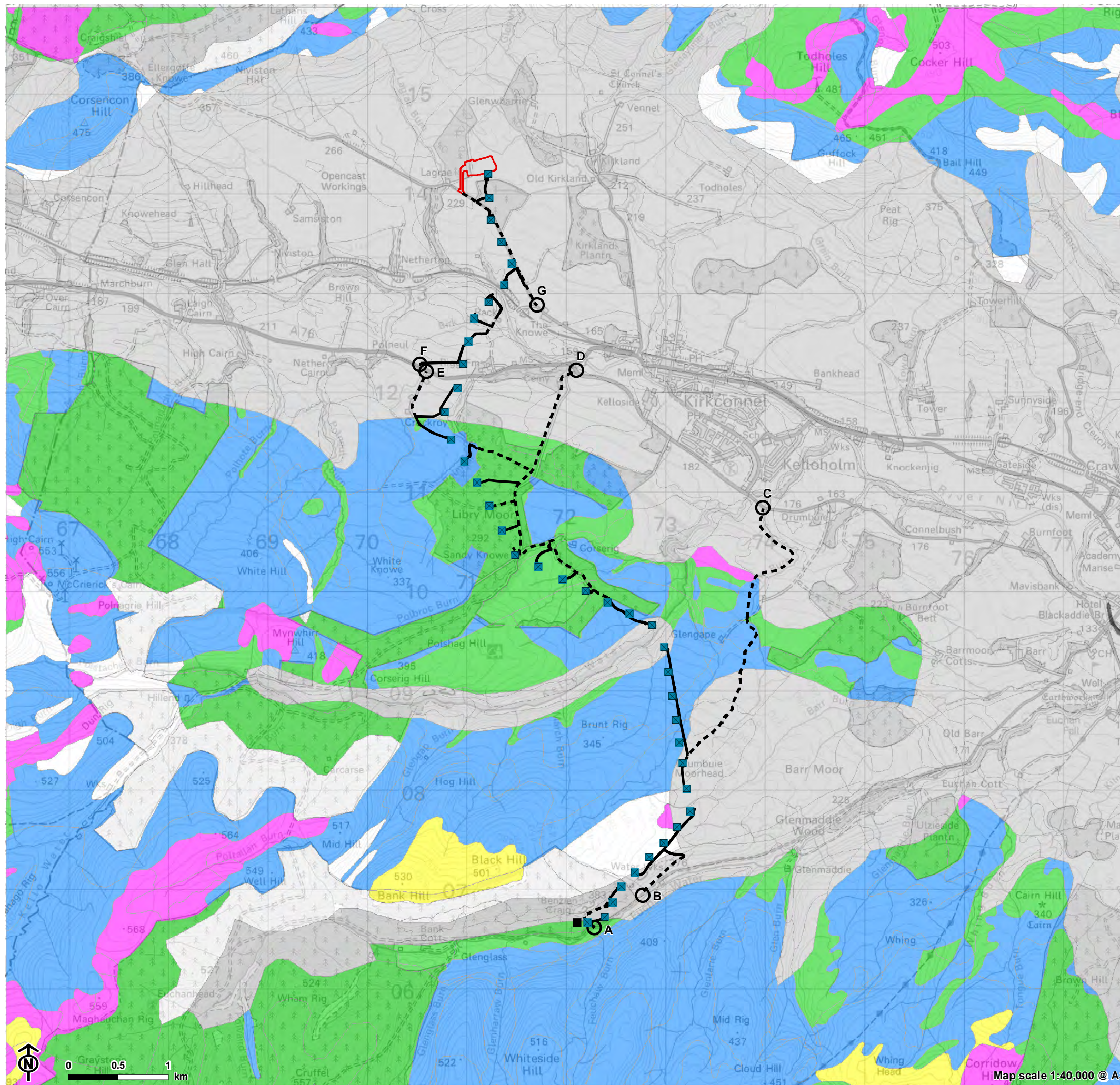
Figure 7.5: Scottish Soils Mapping



- Overhead line infrastructure**
- Tower (steel lattice tower)
- Access to proposed towers and temporary work areas**
- - - Existing access track
 - New access track
 - Access point
- Substations**
- Glenmuckloch substation site boundary
 - Glenglass substation and proposed extension (does not form part of this application)
- National soil map (1:250,000)**
- Alluvial soils
 - Brown earths
 - Humus-iron podzols
 - Lochs
 - Mineral gleys
 - Peat
 - Peaty gleys
 - Peaty podzols



Figure 7.6: Nature Scotland Carbon and Peatlands Mapping 2016



Overhead line infrastructure

- Tower (steel lattice tower)

Access to proposed towers and temporary work areas

- - - Existing access track
- New access track
- Access point

Substations

- Glenmuckloch substation site boundary
- Glenglass substation and proposed extension (does not form part of this application)

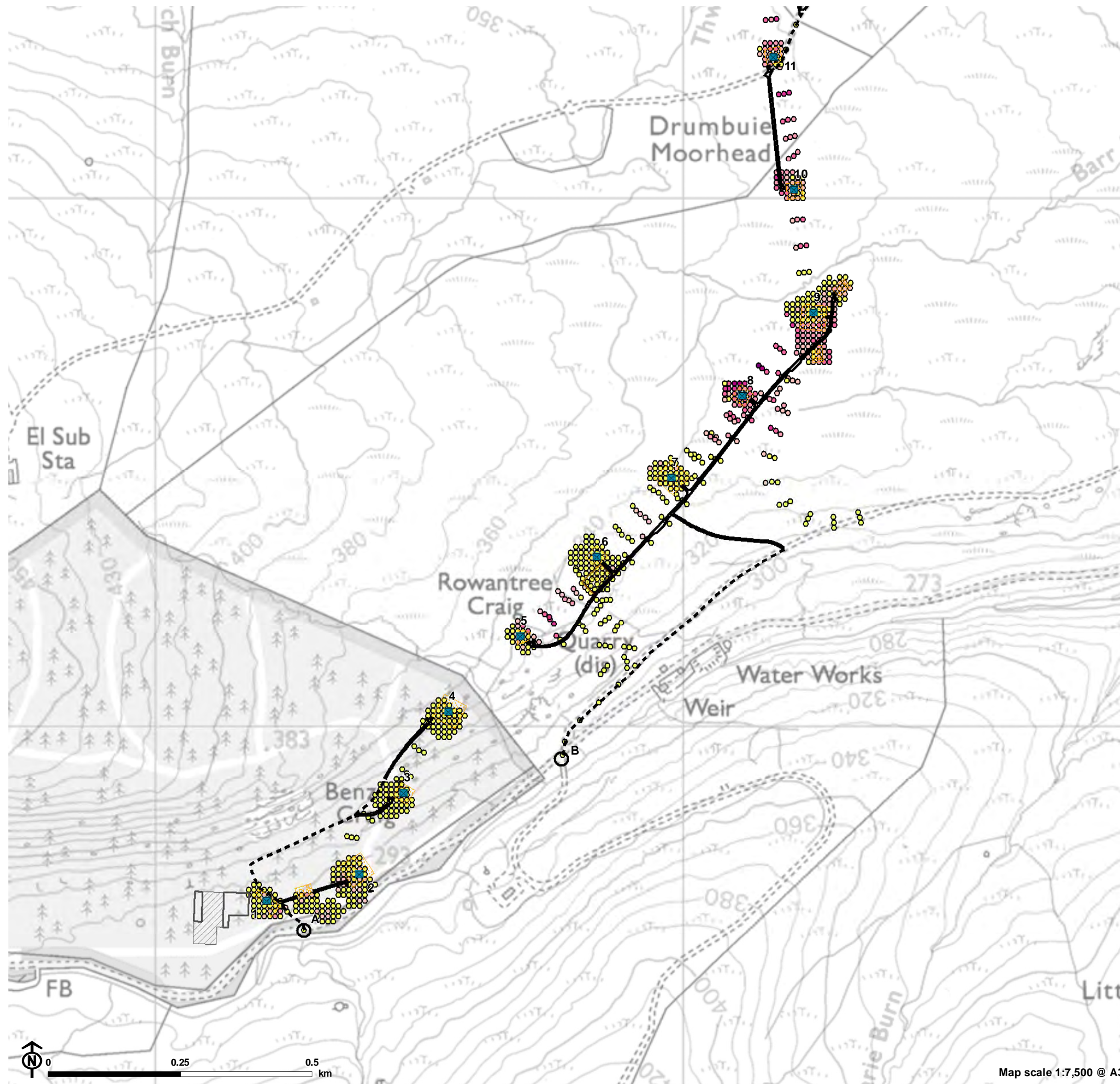
Nature Scotland carbon and peatlands mapping 2016

Importance

- Class 1: Nationally important carbon-rich soils, deep peat and priority peatland habitat. Areas likely to be of high conservation value
- Class 2: Nationally important carbon-rich soils, deep peat and priority peatland habitat. Areas of potentially high conservation value and restoration potential
- Class 3: Dominant vegetation cover is not priority peatland habitat but is associated with wet and acidic type. Occasional peatland habitats can be found. Most soils are carbon-rich soils, with some areas of deep peat
- Class 4: Area unlikely to be associated with peatland habitats or wet and acidic type. Area unlikely to include carbon-rich soils
- Class 5: Soil information takes precedence over vegetation data. No peatland habitat recorded. May also include areas of bare soil. Soils are carbon-rich and deep peat.
- Class 0: Mineral soil
- Class -2: Non-soil



Figure 7.7a: Peat Survey Results



Overhead line infrastructure

- Tower (steel lattice tower)
- Laydown area
- Working area

Access to proposed towers and temporary work areas

- Existing access track
- New access track
- Access point

Glenglass substation (does not form part of this application)

- Existing substation
- Proposed substation extension

Peat survey results: depth (cm)

- 0 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- 200 - 250
- 250 - 300
- 300 - 500

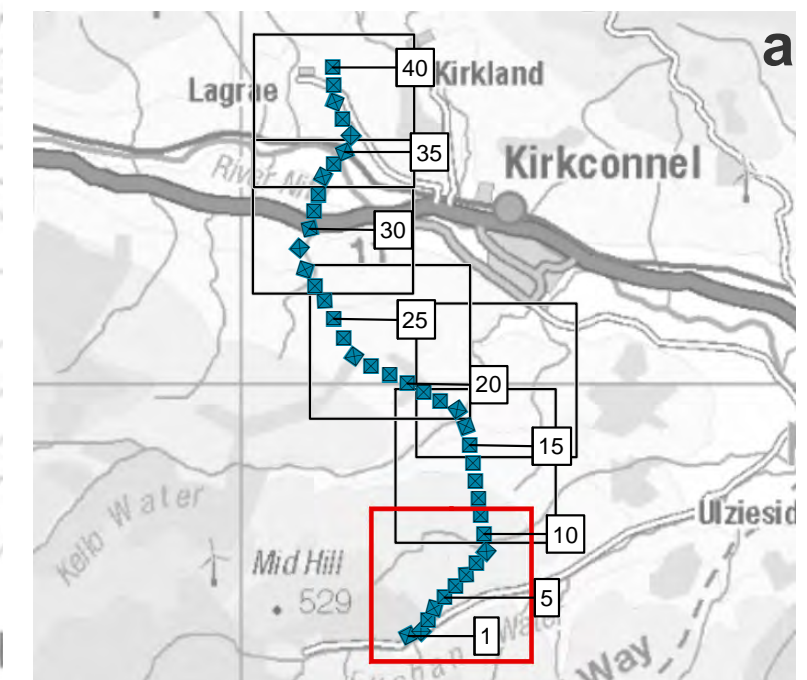


Figure 7.7b: Peat Survey Results



Overhead line infrastructure

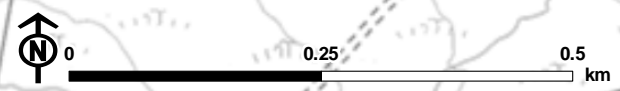
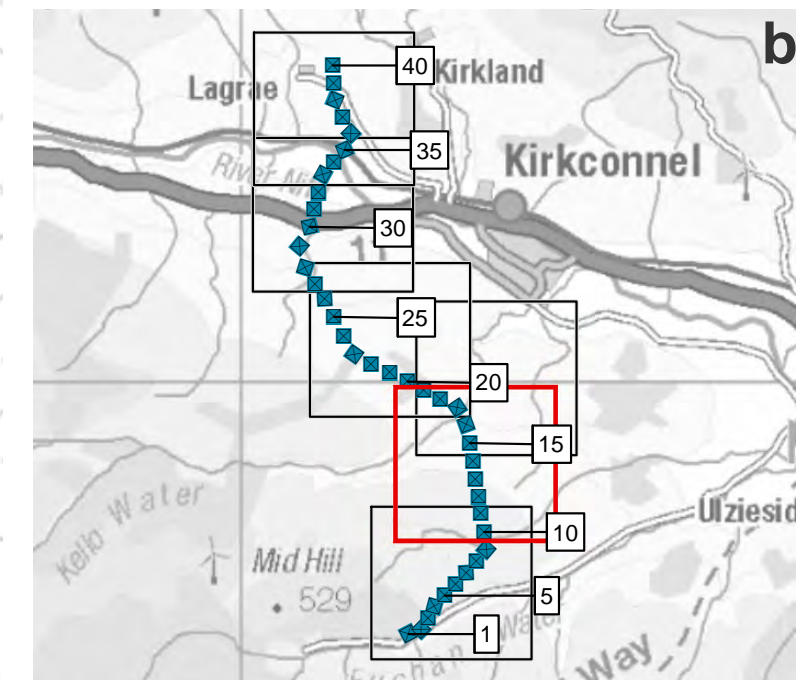
- Tower (steel lattice tower)
- Laydown area
- Working area

Access to proposed towers and temporary work areas

- Existing access track
- New access track

Peat survey results: depth (cm)

- 0 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- 200 - 250



Map scale 1:7,500 @ A3

Figure 7.7c: Peat Survey Results



Overhead line infrastructure

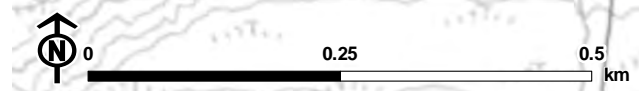
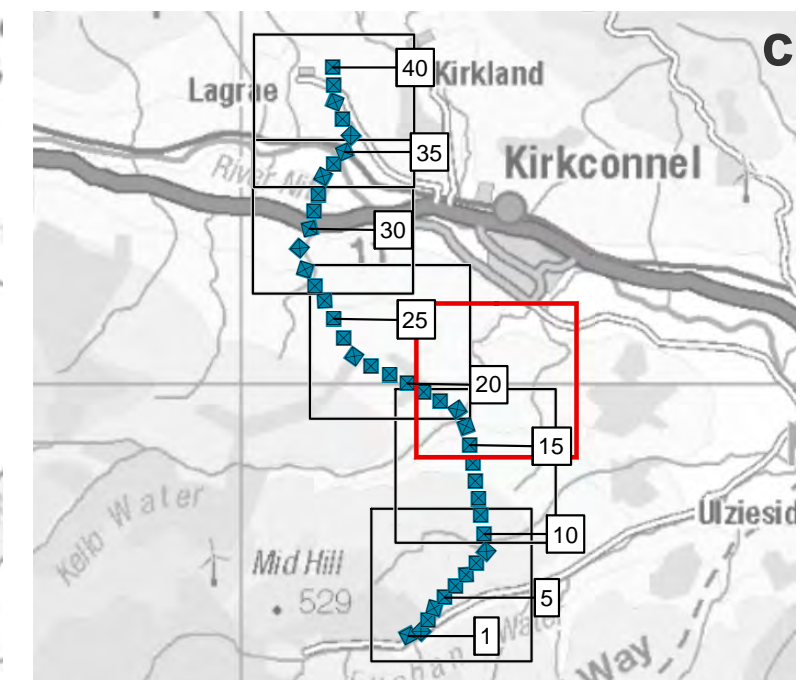
- Tower (steel lattice tower)
- ▨ Laydown area
- ▨ Working area

Access to proposed towers and temporary work areas

- - - Existing access track
- New access track
- Access point

Peat survey results: depth (cm)

- 0 - 50
- 50 - 100



Map scale 1:7,500 @ A3

Figure 7.7d: Peat Survey Results



Overhead line infrastructure

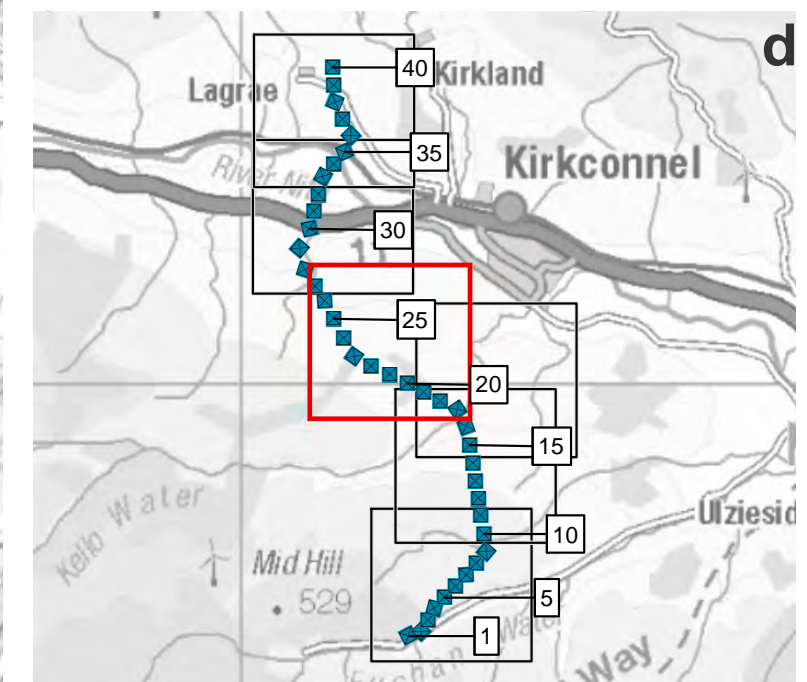
- Tower (steel lattice tower)
- Laydown area
- Scaffolding
- Working area

Access to proposed towers and temporary work areas

- Existing access track
- New access track

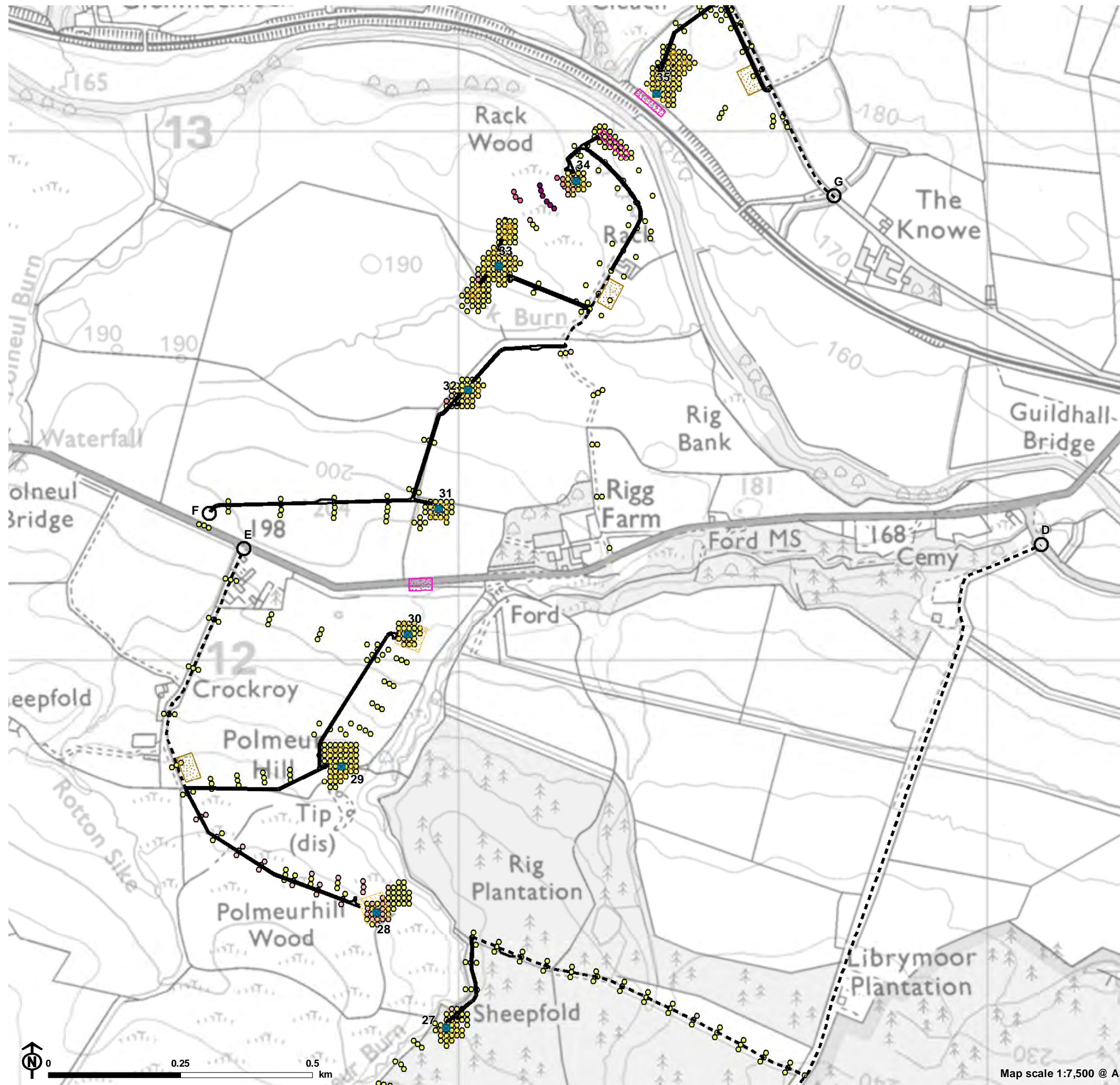
Peat survey results: depth (cm)

- 0 - 50
- 50 - 100
- 100 - 150



Map scale 1:7,500 @ A3

Figure 7.7e: Peat Survey Results



Overhead line infrastructure

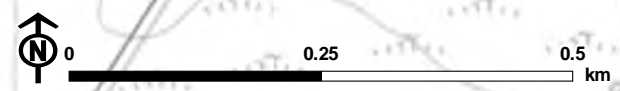
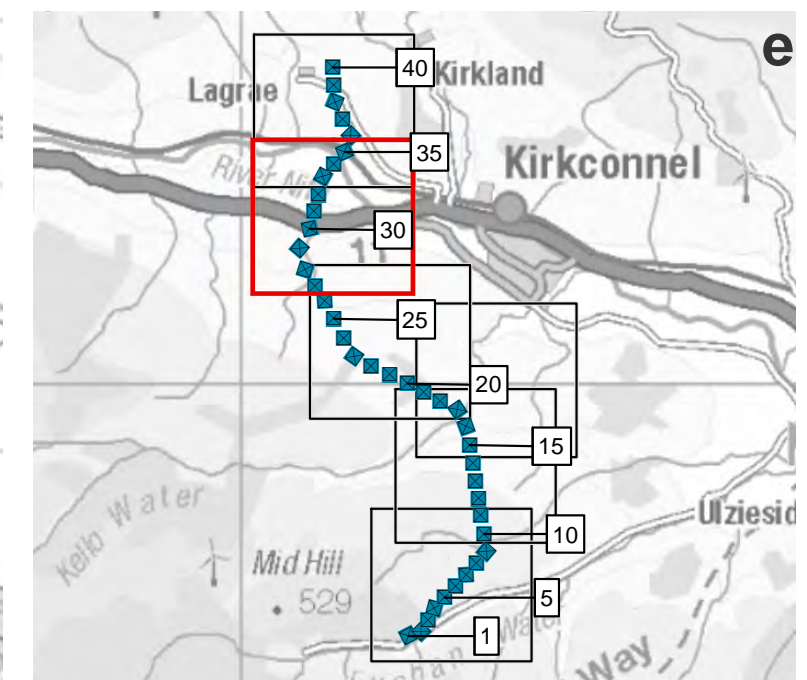
- Tower (steel lattice tower)
- Laydown area
- Scaffolding
- Working area

Access to proposed towers and temporary work areas

- Existing access track
- New access track
- Access point

Peat survey results: depth (cm)

- 0 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- 250 - 300
- 300 - 500



Map scale 1:7,500 @ A3

Figure 7.7f: Peat Survey Results



Overhead line infrastructure

- Tower (steel lattice tower)
- Laydown area
- Scaffolding
- Working area

Access to proposed towers and temporary work areas

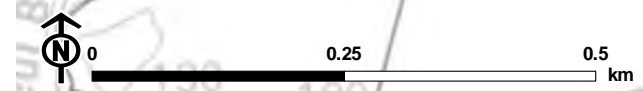
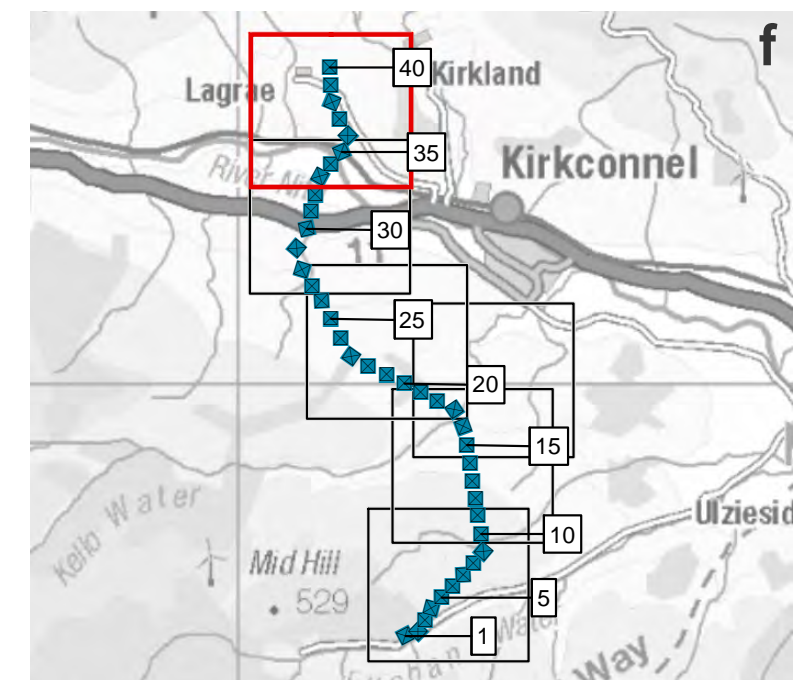
- Existing access track
- New access track
- Access point

Proposed Glenmuckloch substation

- Glenmuckloch substation
- Glenmuckloch substation site boundary
- Glenmuckloch substation new access track

Peat survey results: depth (cm)

- 0 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- 200 - 250
- 250 - 300
- 300 - 500



Map scale 1:7,500 @ A3